

IN THE CLAIMS:

The text of all pending claims, (including withdrawn claims) is set forth below. Cancelled and not entered claims are indicated with claim number and status only. The claims as listed below show added text with underlining and deleted text with ~~strikethrough~~. The status of each claim is indicated with one of (original), (currently amended), (cancelled), (withdrawn), (new), (previously presented), or (not entered).

Please CANCEL claims 9 and 19, ADD new claim 21, and AMEND the claims in accordance with the following:

1. (CURRENTLY AMENDED) A mirror fixing method capable of reducing stress distortion of a surface of a mirror which constitutes an optical system, said stress distortion being generated as a result of fixing said mirror, said method comprising:

forming wherein a mirror part including a base plate formed with on a mirror part of said mirror on one face thereof, is provided with;

providing a boss on the other face of said base plate opposite to the face on which said mirror is formed, ~~and;~~

fixing ~~only said boss is fixed~~, so that said mirror part excluding said boss is not in contact with other members; and

forming an aspherical mirror which is used in a variable wavelength dispersion compensator, on the one face of said base plate of said mirror part.

2. (CURRENTLY AMENDED) A mirror fixing method according to claim 1, further comprising:

forming wherein a first fixture including a receiving plate ~~which is formed with an opening capable of inserting said boss therein, and provided~~

providing the receiving plate with a screw hole perpendicular to a side wall of said opening, ~~is used~~, and

fixing said boss which is inserted in the opening of said receiving plate, ~~is fixed with a screw from the side using said screw hole.~~

3. (CURRENTLY AMENDED) A mirror fixing method according to claim 2, wherein said boss is a cylindrical shape, further comprising:

forming a V-groove structure in ~~and~~ a side wall portion of said opening opposite to the screw hole of said receiving plate ~~is made a V-groove structure, wherein and~~ a side face of said

boss is made to abut on said V-groove, to fix said boss in said V-groove with said screw.

4. (CURRENTLY AMENDED) A mirror fixing method according to claim 3, further comprising:

~~wherein installing~~ a cushion member ~~is installed~~ to be fixed between said boss and a tip portion of said screw.

5. (CURRENTLY AMENDED) A mirror fixing method according to claim 4, further comprising:

coupling ~~wherein said first fixture is coupled with a second fixture to constitute a mirror module, the second fixture being mountable on a movable stage to constitute a mirror module,~~ and

installing said mirror module ~~is installed~~ on said movable stage via said second fixture.

6. (CURRENTLY AMENDED) A mirror fixing method according to claim 5, wherein said second fixture includes a receiving plate formed with an angle adjusting boss, further comprising:

providing on said movable stage a member formed with an opening capable of inserting therein said angle adjusting boss of said receiving plate ~~is provided on said movable stage, and~~

installing said mirror module ~~is installed~~ on said movable stage by inserting said angle adjusting boss of said receiving plate in said opening of said member.

7. (CURRENTLY AMENDED) A mirror fixing method according to claim 6, wherein said installing comprises:

installing said mirror module ~~is installed~~ on said movable stage so as to be rotatable about said angle adjusting boss, ~~and after~~

performing rotation adjustment of a position of said mirror module relative to a travel shaft of said movable stage, and

securing said receiving plate of said second fixture ~~is secured~~ to said movable stage.

8. (CURRENTLY AMENDED) A mirror fixing method according to claim 7, further comprising

forming ~~wherein~~ an outer peripheral portion of said receiving plate of said second fixture ~~is formed~~ in a shape so as to be positioned on the circumference centered on said angle

adjusting boss, and

when performing rotation adjustment of said mirror module, positioning said outer peripheral portion of said receiving plate ~~is positioned on~~ the same circumference.

9. (CANCELLED)

10. (CURRENTLY AMENDED) A mirror fixing method according to claim ~~9~~1, further comprising

~~wherein,~~ when a boss is provided on the other face of said base plate of said mirror part arranging, the center of said boss ~~is arranged on~~ the central axis of said aspherical mirror.

11. (CURRENTLY AMENDED) ~~An optical apparatus having an optical system constructed using a~~ A variable wavelength dispersion compensator including an aspherical mirror generating differing wavelength dispersions to reflected lights corresponding to a shape of a reflecting surface of the aspherical mirror, comprising:

a mirror part including a base plate formed with said aspherical mirror on one face thereof, and a boss provided on the other face of said base plate opposite to the face on which the mirror is formed; and

a first fixture fixing ~~only~~ said boss, so that said mirror part excluding said boss is not in contact with other members.

12. (CURRENTLY AMENDED) ~~An optical apparatus~~ A variable wavelength dispersion compensator according to claim 11,

wherein a first fixture includes a receiving plate which is formed with an opening capable of inserting said boss therein and provided with a screw hole perpendicular to a side wall of said opening, and

said boss which is inserted in the opening of said receiving plate, is fixed with a screw from the side using said screw hole.

13. (CURRENTLY AMENDED) ~~An optical apparatus~~ A variable wavelength dispersion compensator according to claim 12,

wherein, in said mirror part, said boss is a cylindrical shape, and

a side wall portion of said opening opposite to the screw hole of said receiving plate is made a V-groove structure, and a side face of said boss is made to abut on said V-groove, to fix

said boss in said V-groove with said screw.

14. (CURRENTLY AMENDED) ~~An optical apparatus~~ A variable wavelength dispersion compensator according to claim 13, further comprising;

a cushion member installed between said boss and a tip portion of said screw.

15. (CURRENTLY AMENDED) ~~An optical apparatus~~ A variable wavelength dispersion compensator according to claim 11, further comprising;

a movable stage and a second fixture mountable on said movable stage,

wherein said second fixture and said first fixture are coupled with each other to constitute a mirror module, and

said mirror module is installed on said movable stage via said second fixture.

16. (CURRENTLY AMENDED) ~~An optical apparatus~~ A variable wavelength dispersion compensator according to claim 15,

wherein said second fixture includes a receiving plate formed with an angle adjusting boss,

said movable stage is provided with a member formed with an opening capable of inserting therein said angle adjusting boss of said receiving plate, and

said mirror module is installed on said movable stage by inserting said angle adjusting boss of said receiving plate in said opening of said member.

17. (CURRENTLY AMENDED) ~~An optical apparatus~~ A variable wavelength dispersion compensator according to claim 16,

wherein said mirror module is installed on said movable stage so as to be rotatable about said angle adjusting boss, and after rotation adjustment of a position of said mirror module relative to a travel shaft of said movable stage, said receiving plate of said second fixture is secured to said movable stage.

18. (CURRENTLY AMENDED) ~~An optical apparatus~~ A variable wavelength dispersion compensator according to claim 17,

wherein in said second fixture, said receiving plate includes an outer peripheral portion positioned on the circumference centered on said angle adjusting boss, and when performing rotation adjustment of said mirror module, said outer peripheral portion of said receiving plate is

positioned on the same circumference.

19. (CANCELLED)

20. (CURRENTLY AMENDED) ~~An optical apparatus~~ A variable wavelength dispersion compensator according to claim 19,

wherein, in said mirror part, the center of said boss is arranged on the central axis of said aspherical mirror.

21. (NEW) A mirror fixing method comprising:

forming a base plate on a mirror part of a mirror on one face thereof;

providing a boss on the other face of said base plate;

fixing said boss so that said mirror part excluding said boss is not in contact with other members; and

forming a mirror which is used in a variable wavelength dispersion compensator on the one face of said base plate of said mirror part.